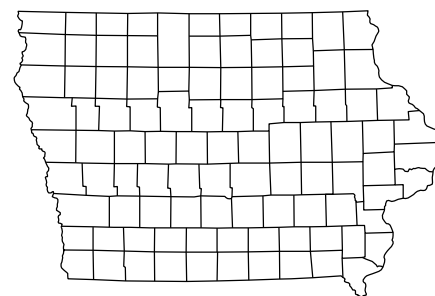



IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR PRAIRIE ROSE STATE PARK HYDRAULIC DREDGING

SHELBY COUNTY, IOWA

PROJECT # 13-04-83-01



	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME UNDER THE LAWS OF THE STATE OF IOWA.
	SIGNATURE _____ DATE _____
	HEATH B. DELZELL PRINTED OR TYPED NAME _____
	MY LICENCE RENEWAL DATE IS DECEMBER 31, 20 _____ PAGES COVERED BY THIS SEAL: _____

DIRECTORY			
PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 EAST 9TH STREET	ADDRESS	
CITY,STATE,ZIP	DES MOINES, IA, 50319	CITY,STATE,ZIP	
CONTACT	HEATH DELZELL	CONTACT	MARK JOHNSON
TELEPHONE	515-979-0104	TELEPHONE	515-250-3713
FAX	515-281-8685	FAX	
EMAIL	heath.delzell@dnr.iowa.gov	EMAIL	mark.johnson@dnr.iowa.gov

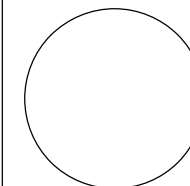
PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF REMOVING APPROXIMATELY 185,000 CY OF SEDIMENT FROM PRAIRIE ROSE LAKE.

<h1 style="margin: 0;">AUTHORIZATION TO BID</h1>	
<p>AUTHORIZATION - PARKS WILDLIFE FISHERIES LAW ENFORCEMENT FORESTRY DATA</p>	<p>DATE</p>
<p>ENGINEERING BUREAU CHIEF</p>	<p>DATE</p>

[illegible]

<p> 1. <input type="checkbox"/> Yes 2. <input type="checkbox"/> No 3. <input type="checkbox"/> Not sure 4. <input type="checkbox"/> Other </p>	<p> 1. <input type="checkbox"/> Yes 2. <input type="checkbox"/> No 3. <input type="checkbox"/> Not sure 4. <input type="checkbox"/> Other </p>
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IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING



COVER SHEET

HYDRAULIC DREDGING FOR:

PRAIRIE ROSE STATE PARK

SHELBY COUNTY

NO.	BY	REVISION
	DATE	
DRAWN BY:		PROJECT NUMBER:
		13-04-83-01
CHK'D BY:		DATE:
SWEET'S		

SHEET NO.

A.01

ESTIMATED PROJECT QUANTITIES

[illegible]

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
1	CONTRACTOR IS TO OBTAIN REQUIRED PERMISSION FROM SHELBY COUNTY FOR ANY ROAD CROSSINGS PRIOR TO DREDGING. THIS ITEM IS TO BE CONSIDERED INCIDENTAL TO THE DREDGING BID ITEM.
2	CONTRACTOR TO PROVIDE SPOIL SITE OUTLET CONTROL STRUCTURE TO ALLOW THE MANIPULATION OF SPOIL SITE SO THAT WATER QUALITY STANDARDS ARE MET. CONTRACTOR IS TO SUBMIT OUTLET CONTROL STRUCTURE DESIGN TO IDNR FLOODPLAINS SECTION FOR REVIEW AND APPROVAL. DESIGN AND PERMITTING COSTS ARE TO BE CONSIDERED INCIDENTAL TO THE CONTROL STRUCTURE BID ITEM.
3	CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR AND RE-SEEDING OF SPOIL SITE DIKE OR OTHER AREAS DISTURBED BY CONTRACTOR OPERATIONS. THIS ITEM IS TO BE CONSIDERED INCIDENTAL TO THE SITE RESTORATION BID ITEM.

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

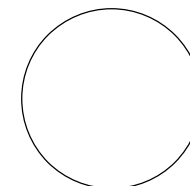
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

CONSULTANT:

IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST. DES MOINES, IA 50319-0034



QUANTITIES AND GENERAL INFORMATION

HYDRAULIC DREDGING FOR:

PRAIRIE ROSE STATE PARK

SHELBY COUNTY

NO.	BY	REVISION
	DATE	
DRAWN BY:		PROJECT NUMBER: 13-04-83-01
CHK'D BY:		DATE:
SHEET NO.		

SHEET No.

C.01

TOTAL SEDIMENT REMOVAL - 185,065 CY

NE BAY - 71,314 CY

NW BAY - 9,052 CY

CENTRAL BAY - 34,233 CY

SE BAY - 68,331 CY

SW BAY - 2,135 CY

AVOID EXISTING
FISH HABITAT
AVOID EXISTING
ROADBED

AVOID EXISTING ROADBED

EXISTING HOLE - 6'+ DEPTH
DREDGE MOBILIZATION AREA



NORMAL POOL ELEVATION: 1228.0

CONSULTANT:

IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



HYDRAULIC DREDGING PLAN

HYDRAULIC DREDGING FOR:

PRAIRIE ROSE STATE PARK

SHELBY COUNTY

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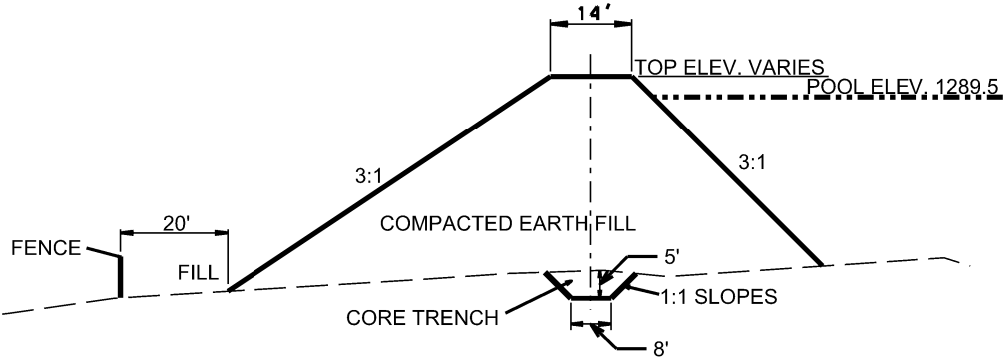
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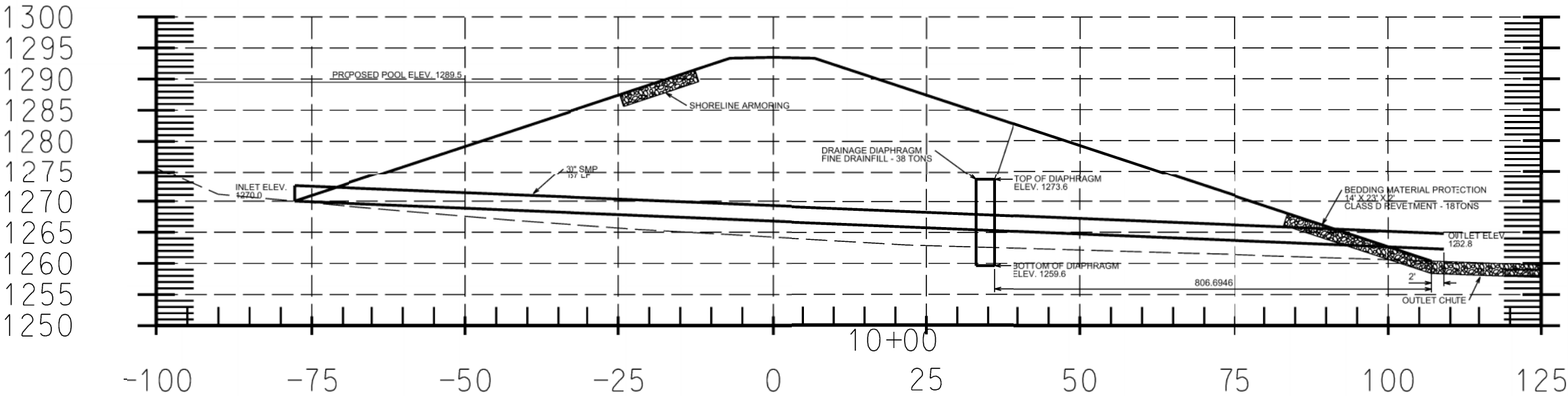
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- NOTES:
- CONTRACTOR TO PROVIDE SPOIL SITE OUTLET CONTROL STRUCTURE TO ALLOW MANIPULATION OF SPOIL SITE SO THAT WATER QUALITY STANDARDS ARE MET. CONTRACTOR IS TO SUBMIT OUTLET CONTROL STRUCTURE DESIGN TO IDNR FLOODPLAINS SECTION FOR REVIEW AND APPROVAL. DESIGN AND PERMITTING COSTS ARE TO BE CONSIDERED INCIDENTAL TO THE CONTROL STRUCTURE BID ITEM.
- CONTRACTOR TO FURNISH ROUTING PLAN FOR DREDGE SPOIL PIPES FOR REVIEW BY THE ENGINEER PRIOR TO DREDGE OPERATIONS.
- CONTRACTOR IS TO OBTAIN REQUIRED PERMISSION FROM SHELBY COUNTY FOR ANY ROAD CROSSINGS PRIOR TO DREDGING. THIS ITEM IS TO BE CONSIDERED INCIDENTAL TO THE DREDGING BID ITEM.
- CONTAINMENT SITE IS CURRENTLY UNDER CONSTRUCTION. CONTRACTOR SHALL INSURE THAT CONTAINMENT SITE IS COMPLETED PRIOR TO ANY DREDGING OPERATIONS. ANTICIPATED COMPLETION DATE ON CONTAINMENT SITE IS MAY 30TH, 2014. CONTAINMENT SITE VOLUME AT NORMAL POOL IS TO BE NOT LESS THAN 272,000 CY.
- CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR AND RE-SEEDING OF SPOIL SITE DIKE OR OTHER AREAS DISTURBED BY CONTRACTOR OPERATIONS.

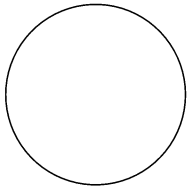


TYPICAL DIKE SECTION - BY OTHERS
NOT TO SCALE



CONDUIT DETAIL - BY OTHERS
NOT TO SCALE

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CONTAINMENT SITE PLAN AND DETAILS

HYDRAULIC DREDGING FOR:

PRAIRIE ROSE STATE PARK

SHELBY COUNTY

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